

UNITED STATES DEPARTMENT OF COMMERCE Patent and Tradomark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS

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	.ISS	'34M1/0813		
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			DATE MAILED:	08/13/93
is is a communication from DMMISSIONER OF PATEN	the exeminer in charge of	f your application.		
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ortened statutory period in reto respond within the p		ill cause the application to become abando	days from ned. 35 U.S.C. 133	the date of this letter.
I THE FOLLOWING A	TTACHMENT(S) ARE	E PART OF THIS ACTION:		
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/ ==	ces Cited by Examiner d by Applicant, PTO-1-		ice re Patent Drawing, P	TO-948. plication, Form PTO-15
	w to Effect Drawing C		ce or mornial Patent At	plication, romi P10-15
II SUMMARY OF ACT				
. Claims		20		are pending in the appl
Of the abov	ve, claims	<u></u>	an	withdrawn from conside
2. Claims				
				have been cancelled.
Claims	1 0-12	1, 16-20		_ are allowed.
. Claims	-6, 7-15	16-20		_ are rejected.
i. Claims				_ are objected to.
I. Claims			_ are subject to restriction	n or election requiremen
'. This application ha	as been filed with infor	rmal drawings under 37 C.F.R. 1.85 which	are acceptable for exam	ination purposes.
. Formal drawings a	are required in respons	se to this Office action.		
		ve been received on	. Under	37 C.F.R. 1.84 these dr
. are in acceptant		heet(s) of drawings, filed on	has (have) been	approved by the
. The proposed add	ditional or substitute sl approved by the exam	iner (see explanation).		
The proposed added	approved by the exam	iner (see explanation).	proved; disapproved	
The proposed addexaminer; a disc	approved by the exam wing correction, filed _ t is made of the claim t	tiner (see explanation).		(see explanation).

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1. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

2. Claims 1,3,4,5,9,10,11,16 and 17 are rejected under 35
U.S.C. § 103 as being unpatentable over West in view of Ripka et al. West discloses applicants invention substantially as claimed with the exception of use of the use of a multi pressure burner with a radiant heater. Ripka et al teaches a radiant burner that has a fuel control system for variable gas flow(col 2 line 59-66). It would have been obvious to have modified the multipressure burner of West to have substituted a radiant burner for

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the conventional burner for the purpose of providing space heating in large buildings. In regard to the claimed glow plug ignitor-sensor recited in claims 10 and 17, use of these devices in combustion control is well known in the art and it would have been obvious to have provided the radiant burner of West as modified by Ripka et al to have provided a glow plug ignitor-sensor for the purpose of combining the ignitor and sensor into one element and reduce the control system complexity.

- 3. Claims 2,12 18 and 20 are rejected under 35 U.S.C. § 103 as being unpatentable over West in view of Ripka as applied to claims 1 and 11 above, and further in view of Johnson. Johnson teaches the use of multi-level output of a radiant burner (col4 lines 13-21). It would have been obvious to have modified the radiant burner of West as modified by Ripka, to have provided a multi-level burner output for the purpose of more efficiently heating the controlled space.
- 4. Claims 6 and 13 rejected under 35 U.S.C. § 103 as being unpatentable over West in view of Ripka et al as applied to claims 1 and 11 above, and further in view of Cremers. Cremers teaches a radiant burner that has a venturi section 10 with the burner tube. It would have been obvious to have modified the radiant burner of West as modified by Ripka et al to have provided the burner with a venturi section for the purpose of

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providing efficient combustion as taught in Cremers(col 3 lines 10-23).

- 5. Claim 19 is rejected under 35 U.S.C. § 103 as being unpatentable over West in view of Ripka et al and Johnson as applied to claims 18 above, and further in view of Cremers. Cremers teaches a radiant burner that has a venturi section 10 with the burner tube. It would have been obvious to have modified the radiant burner of West as modified by Ripka et al to have provided the burner with a venturi section for the purpose of providing efficient combustion as taught in Cremers(col 3 lines 10-23).
- 6. Claims 7,8,14 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

HENRY A. PRIMARY EX ART VIN

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Bennett whose telephone number is (703) 308-2639.

hab August 8, 1993